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- New Michigan Pond, "Talman marsh" on *Acer rubrum*, June 2, 1917; west of Tripoli schoolhouse on trunks of *Acer saccharum*, Apr. 7, 1918. The latter two collections determined by Mr. Merrill.
160. *Pertusaria multipuncta* (Turn.) Nyl. On trees. Fort Edward (Howe); Shushan (Dobbin); Black Mt. on *Abies balsamea*, Aug. 19, 1909; Vaughns on *Betula lutea*, June 6, 1909.
161. *Pertusaria pertusa* (L.) Dalla Torre & Sarnth. Fort Edward; the host plant of *Sphinctrina turbinata* (Howe); E. Galway on *Fagus grandifolia* (Burt); Shushan on oak trunks (Dobbin); northwest Hartford on calcareous rocks, Aug. 24, 1906; west of Tripoli schoolhouse on *Juglans cinerea*, Dec. 5, 1914; Vaughns on *Tilia americana*. The last two collections determined by Mr. Merrill. (*Pertusaria communis* DC.).
162. *Pertusaria pustulata* (Ach.) Nyl. Shusan on maple trunks, May 25, 1907; determined by Dr. Fink.
163. *Pertusaria velata* (Turn.) Nyl. E. Galway on maple trunks (Burt); near Tripoli; Vaughns on trunks of *Carya ovata*, *Betula lenta*, *Acer saccharum*, and *Fraxinus nigra*; Anaquassacook hills on oak trunks. Collections have been determined by Mr. Merrill.
164. *Pertusaria Wulfenii* DC., in sense of Tuckerman. Vaughns on trees, Aug. 18, 1909; determined by Mr. Merrill.

[To be Concluded]

BOOK REVIEW

LÖFMOSSORNAS UTBREDDNING I SVERIGE. [Distribution of Mosses in Sweden.] HJALMAR MÖLLER. Arkiv för Botanik, utgifvet of K. Svenska Vetenskapsakademien i Stockholm. Uppsala & Stockholm. Almqvist & Wiksells Boktryckeri, A-B.

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| Band | 10, No. 12, | I Splachnaceae, 1911. |
| " | 12, No. 4, | II Cryphaeaceae och Neckeraceae, 1912. |
| " | 12, No. 13, | III Thuidiaceae, 1913. |
| " | 15, No. 2, | IV Leskeaceae och Pterogoniaceae, 1917. |
| " | 17, No. 4, | VI Polytrichaceae 2, Polytrichum Dill. 1921. |
| " | 17, No. 14, | VII Hookeriaceae och Fontinalaceae, 1922. |

In the BRYOLOGIST for May, 1920, the writer reviewed No. 5 of this series, dealing with the first part of *Polytrichaceae*, and expressed the hope of seeing the rest of the series. They are all on hand now, up to date, owing to the kindness of Mr. Möller, and form a valuable addition to the literature of the perennially interesting Scandinavian moss-flora. This is always useful to the student of the mosses of northern New England, particularly of those of Vermont.

I. Deals with *Splachnaceae*, genera *Splachnum*, *Haplodon*, *Tetraplodon*, and *Taylora*. They are evidently much more frequent than with us, except perhaps in the subalpine regions of Maine. In this installment, as in all the rest, a very comprehensive list of Swedish stations is given, and most excellent critical notes.

II. *Cryphaeaceae* and *Neckeraceae*, contains the genera *Antitrichia*, *Leucodon*, *Hedwigia*, (1) with several varieties, *Homalia*, and *Neckera*, with six species and many varieties. The assigning of *Hedwigia* to *Cryphaeaceae* is new to the writer.

III. *Thuidiaceae*, genera *Thuidium*, 7 species, our *T. Blandowii* W. & M. as *T. lanatum*, (Strom.) Hagen, *Heterocladium*, 3 species and varieties.

IV. *Leskeaceae* and *Pterogoniaceae*, genera *Leskeella*, 3 species. *Leskea polycarpa* Ehrh. and 2 varieties; *Anomodon*, 4; *Pseudoleskeella catenulata* (Brid.) Kindb.; *Myurella*, 2 species; *Pterogoniaceae*, genera *Pterogonium*, *P. ornithopodioides* (Huds.) Lindb.; *Pterygynandrum filiforme* (Timm.) Hedw., and 3 vars.; *Helicodontium pulvinatum* (Wahlenb.) Lindb.

V. See BRYOLOGIST for May, 1920, Vol. 23, p. 46.

VI. *Polytrichaceae* 2, *Polytrichum* Dill., 12 species are discussed, including some formerly under *Pogonatum*, as *P. alpinum* L., with numerous varieties.

VII. *Hookeriaceae* and *Fontinalaceae*. 1. *Pterygophyllum lucens* (L.) Brid. 2. *Dichelyma*, 2 species. *Fontinalis*, 11 species and plenty of varieties, with many excellent figures of the leaf-cells, which should be most useful in the study of this interesting but critical genus.

The text of this series is in Swedish, but that ought not to deter the earnest student from consulting it. The writer presumes that the series is to be continued.

ANNIE LORENZ

HARTFORD, CONNECTICUT,

APRIL, 1922.

MISCELLANEOUS NOTES

Mr. H. Pittier, lately of the Bureau of Plant Industry, U. S. Department of Agriculture, and now a resident of Caracas, Venezuela, has undertaken extensive plant collecting in that country. Lately, he has paid closer attention to the Moss flora, which seems to be very rich, since, though no less than seventy-nine genera and two hundred and ninety species had been listed previously, the small collection already sent Mrs. Britton and Mr. Williams for determination contained several interesting additions to said list.

Four sets of Mr. Pittier's plants have already been placed, but he would like to obtain a few more subscribers, either for the complete series or for the mosses only, which would help him in continuing his exploration work in Venezuela. It may be added that Mr. Pittier is not without experience as a collector. He was the initiator and principal agent in the formation of the rich collection of more than 20,000 numbers known as the "Instituto-físico-geográfico de Costa Rica" series (1887-1905), the mosses of which were worked up by Mr. J. Cardot, and his own series (1903-), a complete set of which is in the U. S. Nat. Herbarium, amounts to-day to more than 10,000 specimens, proceeding from Mexico, Central America, Panama, Colombia and Venezuela. Fuller information may be obtained from Mr. Edward B. Chamberlain or Mrs. Britton.